

CLAIMS

1. A liquid transfer apparatus comprising:
a liquid containing section for containing
5 liquid;

a liquid introducing section for introducing
liquid into said liquid containing section; and

a liquid leading out section for leading out
the liquid introduced into said liquid containing
10 section,

characterized in that

said liquid introducing section and said liquid
leading out section are arranged so as to make the
liquid leading out section of a liquid transfer
15 apparatus connected with the liquid introducing
section of another liquid transfer apparatus.

2. A liquid transfer apparatus according to
claim 1, characterized in that at least either said
liquid introducing section or said liquid leading out
20 section has a sealing material for maintaining a
liquid-tightness when it is connected to the liquid
leading out section or the liquid introducing section,
whichever appropriate, of another liquid transfer
apparatus.

25 3. A liquid transfer apparatus according to
claim 1, characterized in that said liquid containing
section has a processing means for heating,

condensing, agitating, mixing or causing a chemical or biochemical reaction of the liquid introduced from said liquid introducing section.

4. A liquid transfer apparatus according to
5 claim 1, characterized in that said liquid leading out section has a check valve.

5. A liquid transfer apparatus according to
claim 1, characterized in that said liquid leading out section has an energy application means for
10 applying energy necessary for ejecting liquid.

6. A liquid conveyor according to claim 1, characterized in that said liquid containing section has a plurality of liquid introducing sections and said liquid transfer apparatus further comprises
15 means for mixing a first liquid introduced from one of the liquid introducing sections and a second liquid introduced from another one of the liquid introducing sections.

7. A liquid transfer apparatus according to
20 claim 6, characterized in that the first and second liquids are a specimen and a solvent of the specimen.

8. A liquid transfer apparatus according to claim 7, characterized in that the specimen is a component of a living body.

25 9. A liquid transfer apparatus according to claim 6, characterized in that it further comprises analyzing means for analyzing a specific component

contained in the mixture solution mixed by said mixing means.

10. A liquid transfer apparatus according to claim 9, characterized in that said analyzing means
5 is detection means for detecting the specific component.

11. A liquid transfer method characterized by comprising:

a step of reversibly connecting to unite a
10 plurality of liquid conveyors, each comprising a liquid containing section for containing liquid, a liquid introducing section for introducing liquid into said liquid containing section and a liquid leading out section for leading out the liquid
15 introduced into said liquid containing section; and

a step of transferring liquid from the liquid introducing section of a liquid transfer apparatus to the liquid leading out section of another liquid transfer apparatus by ejecting the liquid contained
20 in the liquid containing section of the former liquid transfer apparatus.